

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

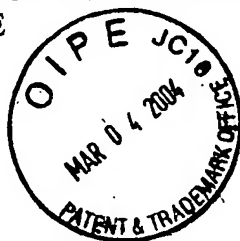
Applicant: Steven Andrew Poling et al.

Title: COMPOUNDS FOR NOVEL PROTON CONDUCTING MEMBRANES AND METHODS OF MAKING SAME

Docket No.: 900.186US1

Filed: July 25, 2003

Examiner: Unknown



Serial No.: 10/627584

Due Date: N/A

Group Art Unit: 1745

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
☒ An Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 19 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186By: Barbara J. Clark
Atty: Barbara J. Clark
Reg. No. 38,107

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 2nd day of March, 2004.

Anne Koch

Name

Anne Koch

Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No :10/627584

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Dkt: 900.186US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

STEVEN ANDREW POLING ET AL.

By their Representatives,

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Date MARCH 2, 2004

By

Barbara J. Clark
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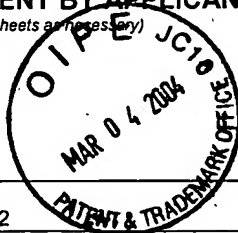
Anne Koch

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number 10/627584

Filing Date July 25, 2003

First Named Inventor Poling, Steven

Group Art Unit 1745

Examiner Name Unknown

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Attorney Docket No: 900.186US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-4,439,411	03/27/1984	Manganaro, James L., et al.	423	560	01/22/1981

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ABE, YOSHIHIRO , et al., "Electrical conduction due to protons and alkali-metal ions in oxide glasses", <u>Physical Review B (Condensed Matter)</u> , 48(21), (December 1, 1993),15621-5	
		ABE, YOSHIHIRO , et al., "Protonic conduction in alkaline earth metaphosphate glasses containing water", <u>Journal of Non-Crystalline Solids</u> , 51(3), (November 1982),357-65	
		ANGELL, C A., "Mobile Ions in Amorphous Solids", <u>Annual Review of Physical Chemistry</u> , 43, (October 1992),693-717	
		BLOMEN, L. ET AL., EDS. , "Fuel Cell Systems", <u>Copyright 1993, Plenum Press, New York, ISBN 0-306-44158-6,(1993),xi-xix, 37-69</u>	
		BOOLCHAND, P , et al., "Structure of GeS/sub 2/ glass: spectroscopic evidence for broken chemical order", <u>Physical Review B (Condensed Matter)</u> , 33(8), (April 15, 1986),5421-34	
		CHO, J , et al., "Infrared spectroscopy study of xRb/sub 2/S+(1-x)B/sub 2/S/sub 3/ glasses and polycrystals in the range 0", <u>Physics and Chemistry of Glasses</u> , 36(6), (December 1995),239-43	
		JULIEN, C. , et al., "Solid State Batteries: Materials Design and Optimization", <u>Copyright 1994, Kluwer Academic Publishers, ISBN 0-7923-9460-7,(1994),v-viii, 97-175, 183-277</u>	
		KAESAER, J A., "Hydrosulfides of Group I and Group II Metals", <u>Inorganic Chemistry</u> 12, (1973),3019-3020	
		KAMITSOS, E I., et al., "Structure and optical conductivity of silver thiogermanate glasses", <u>Journal of Solid State Chemistry</u> , 112(2), (October 1994),255-61	
		KARTHIKEYAN, A , et al., "New method to prepare polycrystalline meta-thioboric acid, (HBS2)3.", <u>Inorganic Chemistry</u> 41, (2001),622-624	
		KAWAMOTO, YOJI , et al., "Infrared and Raman spectroscopic studies on short-range structure of vitreous GeS/sub 2/", <u>Materials Research Bulletin</u> , 17(12), (December 1982),1511-16	
		KINCS, J , et al., "Non-Arrhenius conductivity in glass: mobility and conductivity saturation effects", <u>Physical Review Letters</u> , 76(1), (January 1, 1996),70-3	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

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Application Number	10/627584
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First Named Inventor	Poling, Steven
Group Art Unit	1745
Examiner Name	Unknown

Sheet 2 of 2

Attorney Docket No: 900.186US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MARTIN, S W., et al., "DC and AC conductivity in wide composition range Li/sub 2/O-P/sub 2/O/sub 5/ glasses", <u>Journal of Non-Crystalline Solids</u> , 83(1-2), (June 11, 1986),185-207	
		MARTIN, S W., et al., "Ionic conduction in phosphate glasses", <u>Journal of the American Ceramic Society</u> , 74(8), (August 1, 1991),1767-83	
		MARTIN, S W., et al., "Preparation of high-purity vitreous B/sub 2/S/sub 3/", <u>Journal of the American Ceramic Society</u> , 73(11), (November 1990),3481-5	
		PPG INDUSTRIES, "Sodium Hydrosulfide", <u>http://www.ppg.com/chm_chloralk/Bulletins/SodiumHydrosulf.pdf</u> , (July 2002),	
		THOMAS, SHARON , et al., "Fuel Cells: Green Power", <u>Los Alamos National Laboratory, U.S. Department of Energy, Publication number, LA-UR-99-3231,(1999),1-36</u>	
		WILLARD, H H., et al., "The preparation and properties of potassium thiogermante and thiogermanic acid", <u>Journal of the American Chemical Society</u> 65, (1943),1887-1889	

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